

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GT/3-22333/A	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/08291	International filing date (day/month/year) 28/07/2003	(Earliest) Priority Date (day/month/year) 05/08/2002
Applicant CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/08291

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C13K1/02 C12N9/22 C12P7/08 D21C5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C13K C12N C12P D21C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, BIOSIS, EMBASE, WPI Data, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2 017 707 A (PURDUE RESEARCH FOUNDATION) 10 October 1979 (1979-10-10) claims 1-11,14-16; examples 3,4 page 1, line 3-40,63-76,82-95,101-123,129 -page 2, line 6,27-46,52-124 ---	1,3-11, 19-22
Y	KHOLKIN Y I ET AL: "Purification of carbohydrate-containing substrates from plant biomass hydrolysates." APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY 82 (2) 135-140 1999 CORRESPONDENCE (REPRINT) ADDRESS, H. D. METTEE, YOUNGSTOWN STATE UNIV., YOUNGSTOWN, OH 44555, USA. E-MAIL HDMETTEE(A)CC.YSU.EDU, XP008025182 page 135, paragraph 1 -page 136, paragraph 5 page 139, paragraph 2 ---	1,3-11, 19-22
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

28 November 2003

Date of mailing of the international search report

15/12/2003

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Tallgren, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/03291

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section Ch, Week 199318 Derwent Publications Ltd., London, GB; Class D15, AN 1993-150324 XP002263233 & SU 1 733 477 A (KIROVSK BIOCHEM WKS), 15 May 1992 (1992-05-15) abstract</p> <p>---</p>	1,9-18
A	<p>DATABASE WPI Section Ch, Week 199745 Derwent Publications Ltd., London, GB; Class A97, AN 1997-488205 XP002263234 & RU 2 077 594 C (VYGLAZOV V V), 20 April 1997 (1997-04-20) abstract</p> <p>---</p>	1,9-18
A	<p>WO 99 50195 A (ALLEN ANTHONY PETER ;CIBA SPEC CHEM WATER TREAT LTD (GB)) 7 October 1999 (1999-10-07) claims 1-6,8,11,12; examples 1-5</p> <p>---</p>	1,9-18
A	<p>WO 01 34908 A (CIBA SPEC CHEM WATER TREAT LTD ;CDM AB (SE)) 17 May 2001 (2001-05-17) claims 1-3,6-13,17-19; examples 1-8</p> <p>---</p>	1,9-18
A	<p>US 4 525 218 A (CHEN LI F ET AL) 25 June 1985 (1985-06-25) claims 1-8; example 1 column 1, line 7-9,54-57 column 2, line 15 -column 3, line 21,28-31,41-44</p> <p>---</p>	1-21
A	<p>TUCKER M P ET AL: "Comparison of yellow poplar pretreatment between NREL digester and Sunds hydrolyzer" APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 70-72, no. 0, April 1998 (1998-04), pages 25-35, XP008025071 ISSN: 0273-2289 page 25, paragraphs 1,2 -page 26, paragraph 1 page 28, paragraphs 2,3 page 29, paragraph 3 page 35, paragraph 1</p> <p>---</p> <p style="text-align: center;">-/--</p>	1,3-8, 19,20

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International Application No

PCT/EP 0 8291

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHELL DANIEL ET AL: "Pretreatment of softwood by acid-catalyzed steam explosion followed by alkali extraction" APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol. 70-72, no. 0, April 1998 (1998-04), pages 17-24, XP008025072 ISSN: 0273-2289 page 17, paragraph 1 -page 18, paragraph 3 page 19, paragraph 4 -page 21, paragraph 3 -----	1-8,19, 20
A	WO 94 29475 A (MIDWEST RESEARCH INST) 22 December 1994 (1994-12-22) claims 1,2 page 4, line 5-9,27-29 -----	22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/0291

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